

CLAIMS.

- 5 1. Monofilaments or stretched tapes, unwoven or woven into raffia prepared from a metallocene-produced polyethylene resin having long chain branches.
2. The monofilaments or stretched tapes of claim 1 wherein the metallocene component is a tetrahydroindenyl.
- 10 3. A process for preparing stretched tapes that comprises the steps of:
 - a) providing a metallocene-produced medium density polyethylene resin having long chain branches;
 - b) producing a film from the polyethylene resin of step a)
 - c) orienting the film obtained from step b) by stretching;
 - 15 d) cutting the stretched film of step c) into strips
 - e) optionally, annealing the stretched tapes.
4. The process of claim 4 wherein step d) is performed before step c)
- 20 5. The process of claim 4 or claim 5 wherein the stretching temperature is of from 10 to 70 °C lower than the melting temperature of the resin.
6. The process of claim 6 wherein the stretching temperature is of from 15 to 50 °C lower than the melting temperature of the resin
- 25 7. The process of any one of claims 4 to 7 wherein the ratio of the rollers' velocities is in the range of 5 to 7.
8. The process of any one of claims 4 to 8 wherein the annealing temperature, if annealing is performed, is of from 5 to 10 °C lower than the stretching temperature
- 30